

9.5b Alternating Series, Checking Endpoints

Alternating Series Test with remainder

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Prove the alternating harmonic series is convergent but not absolutely convergent

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Conditional Convergence

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Find the interval of convergence for the following series. Be sure to check the endpoints.

$$\sum_{n=1}^{\infty} (-1)^{n+1} \frac{x^{2n}}{2n}$$

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$$\sum_{n=0}^{\infty} \frac{(10x)^n}{n!}$$

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$$\sum_{n=1}^{\infty} \frac{(x-3)^n}{2n}$$

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